

Listing of the Claims:

The following is a complete listing of all the claims in the application, with an indication of the status of each:

1. (Currently amended) An electrode assembly for the electrochemical treatment of liquids with a low conductivity, comprising:

at least two said assembly having electrodes;

an interspace defined by said at least two electrodes through which liquid can flow;

at least one (1, 2) which have a polymeric solid electrolyte (3) arranged in said interspace between said at least two electrodes;

~~them, are pressed against one another by means of a pressure-exerting device (9, 10, 91) and are formed in such a manner that the liquid can flow through the assembly, characterized in that the pressure-exerting device (9, 10, 91) is generating a contact-pressure force for pressing the electrodes against each other through the polymeric solid electrolyte,~~

wherein the pressure exerting device is supported directly on the electrodes so that the polymeric solid electrolyte obtains a contact pressure force from the mechanical stability of the electrodes; and (1, 2)

wherein the polymeric solid electrolyte is arranged in strips, which are at a distance from one another, in the interspace between the at least two electrodes, so that a flow can pass parallel to the at least two electrodes.

2. (Currently amended) The electrode assembly as claimed in claim 1; ~~characterized in that wherein~~ at least one electrode of said at least two electrodes (1, 2) has a support which is coated with a doped diamond layer.

3. (Currently amended) The electrode assembly as claimed in claim 2; ~~characterized in that wherein~~ the support comprises metal.

4. (Currently amended) The electrode assembly as claimed in claim 3; ~~characterized in that wherein~~ the support is formed from an expanded metal grid (11, 21).

5. (Currently amended) The electrode assembly as claimed in claim 2;
~~characterized in that wherein~~ the electrodes (1, 2) have passage openings (42) to
the polymeric solid electrolyte (3).

6. (Currently amended) The electrode assembly as claimed in claim 1;
~~characterized in that the~~ polymeric solid electrolyte (3) has passage openings.

7-9. (Canceled)

10. (Currently amended) The electrode assembly as claimed in claim 1;
~~characterized in that wherein~~ the polymeric solid electrolyte (3) is applied to one
of the electrodes (2) as a surface layer.

11. (Currently amended) The electrode assembly as claimed in claim 1, wherein
~~characterized in that it is formed from~~ a stack of a plurality of electrodes (1, 2) and
a plurality of polymeric solid electrolytes (3) which are arranged between two
respective electrodes of said at least two electrodes (1, 2), said electrodes and
electrolytes being jointly pressed against one another by the pressure-exerting
device (9, 10).

12. (Currently amended) The electrode assembly as claimed in claim 1;
~~characterized in that~~ wherein a plurality of individual assemblies which are formed
from two respective electrodes (1, 2) and one polymeric solid electrolyte in the
interspace between the electrodes (3) are connected to the pressure-exerting device
(9, 10) to form a stack.

13. (Currently amended) The electrode assembly as claimed in claim 1;
~~characterized in that~~ wherein the electrodes (1, 2) are flat.

14. (Currently amended) The electrode assembly as claimed in claim 1;
~~characterized in that~~ wherein the pressure-exerting device (9, 10) comprises a
plurality of screw connections which are led through the electrodes and are made
of insulating material.

15. (Currently amended) The electrode assembly as claimed in claim 1; characterized in that wherein the pressure-exerting device (91) is formed from material which is in the form of a wire, is wrapped around the electrodes (1, 2) and has ends which are twisted together in order to generate the pressure.

16. (Currently amended) The electrode assembly as claimed in claim 1; characterized in that wherein the at least two electrodes (1, 2) are in the form of rods, and wherein in that the polymeric solid electrolyte (3) in the form of a strip (34) alternately wrapping wraps around the electrodes (1, 2) under prestress.

17. (New) The electrode assembly as claimed in claim 3 wherein the electrodes have passage openings to the polymeric solid electrolyte.

18. (New) An electrode assembly for the electrochemical treatment of liquids with a low conductivity, comprising:

- at least two electrodes;
- an interspace defined by said at least two electrodes through which liquid can flow;
- at least one polymeric solid electrolyte arranged in said interspace between said at least two electrodes; and
- a pressure-exerting device generating a contact-pressure force for pressing the electrodes against each other through the polymeric solid electrolyte, wherein the pressure-exerting device supported directly on the electrodes so that the polymeric solid electrolyte obtains a contact pressure force from the mechanical stability of the electrodes, and
- wherein the polymeric solid electrolyte is arranged in the interspace between the electrode in area pieces which are at a distance from one another so as to provide through flow regions within said interspace which are parallel to said electrodes.

19. (New) The electrode assembly as claimed in claim 18 wherein at least one electrode of said at least two electrodes has a support which is coated with a doped diamond layer.

20. (New) The electrode assembly as claimed in claim 19 wherein the support comprises metal.
21. (New) The electrode assembly as claimed in claim 20 wherein the support is formed from an expanded metal grid.
22. (New) The electrode assembly as claimed in claim 19 wherein the electrodes have passage openings to the polymeric solid electrolyte.
23. (New) The electrode assembly as claimed in claim 18 the polymeric solid electrolyte has passage openings.
24. (New) The electrode assembly as claimed in claim 18 wherein the polymeric solid electrolyte is applied to one of the electrodes as a surface layer.
25. (New) The electrode assembly as claimed in claim 18, wherein a stack of a plurality of electrodes and a plurality of polymeric solid electrolytes are arranged between two respective electrodes of said at least two electrodes, said electrodes and electrolytes being jointly pressed against one another by the pressure-exerting device.
26. (New) The electrode assembly as claimed in claim 18 wherein a plurality of individual assemblies which are formed from two respective electrodes and one polymeric solid electrolyte in the interspace between the electrodes are connected to the pressure-exerting device to form a stack.
27. (New) The electrode assembly as claimed in claim 18 wherein the electrodes are flat.
28. (New) The electrode assembly as claimed in claim 18 wherein the pressure-exerting device comprises a plurality of screw connections which are led through the electrodes and are made of insulating material.

29. (New) The electrode assembly as claimed in claim 18 wherein the pressure-exerting device is formed from material which is in the form of a wire, is wrapped around the electrodes and has ends which are twisted together in order to generate pressure.

30. (New) The electrode assembly as claimed in claim 18 wherein the at least two electrodes are in the form of rods, and wherein the polymeric solid electrolyte in the form of a strip alternately wrapping around the electrodes under prestress.

31. (New) The electrode assembly as claimed in claim 20 wherein the electrodes have passage openings to the polymeric solid electrolyte.

32. (New) An electrode assembly for the electrochemical treatment of liquids with a low conductivity, comprising:

at least two electrodes;

an interspace defined by said at least two electrodes through which liquid can flow;

at least one polymeric solid electrolyte arranged in said interspace between said at least two electrodes;

a pressure-exerting device generating a contact-pressure force for pressing the electrodes against each other through the polymeric solid electrolyte,

wherein the pressure-exerting device supported directly on the electrodes so that the polymeric solid electrolyte obtains a contact pressure force from the mechanical stability of the electrodes, and

wherein the pressure-exerting device is formed from material in the form of a wire, is wrapped around the electrodes and has ends which are twisted together in order to generate the pressure.

33. (New) The electrode assembly of claim 32, wherein the two electrodes are in the form of rods, and wherein the polymeric solid electrolyte in the form of a strip alternately wrapping around the electrodes under prestress.

34. (New) The electrode assembly as claimed in claim 32 wherein at least one

electrode of said at least two electrodes has a support which is coated with a doped diamond layer.

35. (New) The electrode assembly as claimed in claim 34 wherein the support comprises metal.

36. (New) The electrode assembly as claimed in claim 35 wherein the support is formed from an expanded metal grid.